

WHAT IS CLAIMED IS:

1. An image processing device operable in a plurality of modes of operation, comprising:

a memory for storing image data of a plurality of frames;

5 state decision controller for determining a state of said image data stored in said memory for each frame;

a display for displaying an operating state of said image processing device; and

10 a display controller for displaying on said display an operable mode of operation of said plurality of modes of operation according to the state of said image data.

2. The image processing device according to claim 1, wherein said state decision controller determines a length of a frame of said image data in a predetermined direction.

3. The image processing device according to claim 1, wherein said state decision controller determines a frame size of said image data.

5.5 A1) 4. An image processing device operable in a plurality of modes of operation, comprising:

a memory for storing image data of a plurality of

frames;

5 state decision controller for determining a state of
 said image data stored in said memory for each frame;
 an operation panel for selecting any of said
 plurality of modes of operation; and
 a selection prohibiting controller for prohibiting
 10 selecting an inoperable mode of operation of said
 plurality of modes of operation through said operation
 panel according to the state of said image data.

5. The image processing device according to claim 4,
 wherein said state decision controller determines a length
 of a frame of said image data in a predetermined direction.

6. The image processing device according to claim 4,
 wherein said state decision controller determines a frame
 size of said image data.

7. An image forming apparatus operable in a plurality
 of print modes, comprising:

a memory for storing image data of a plurality of
 frames;

5 a printer for reading said image data stored in said
 memory for each frame and for printing;

state decision controller for determining a state of

said image data stored in said memory for each frame;
 a display for displaying an operating state of said
 10 image forming apparatus; and
 a display controller for displaying on said display
 an operable print mode of said plurality of print modes
 according to the state of said image data.

8. The image forming apparatus according to claim 7,
 wherein said state decision controller determines a length
 of a frame of said image data in a predetermined direction.

9. The image forming apparatus according to claim 8,
 further comprising a finisher for stapling sheets printed
 by said printer, wherein:

5 said frame-length decision controller determines
 whether said image data stored in said memory all have a
 same frame length in said predetermined direction; and
 said display controller displays a staple print mode
 on said display when it is determined that said image data
 stored in said memory all have a same frame length in said
 10 predetermined direction, said staple print more being
 provided so that said finisher provides a staple
 processing.

10. The image forming apparatus according to claim 7,

wherein said state decision controller determines a frame size of said image data.

11. The image forming apparatus according to claim 10, wherein:

said frame-size decision controller determines whether said image data stored in said memory all have a same frame size; and

said display controller displays a two-side print mode on said display when it is determined that said image data stored in said memory all have a same frame size, said two-side print mode being provided for printing said image data stored in said memory on both sides of a sheet.

12. The image forming apparatus according to claim 10, wherein:

said frame-size decision controller determines whether said image data stored in said memory all have a same size; and

said display controller displays an economy print mode on said display when it is determined that said image data stored in said memory all have a same frame size, said economy print mode being provided for printing said image data of a plurality of frames on a same side of a sheet.

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13. An image forming apparatus operable in a plurality of print modes, comprising:

a memory for storing image data of a plurality of frames;

5 a printer for reading said image data stored in said memory for each frame and for printing;

state decision controller for determining a state of said image data stored in said memory;

10 an operation panel for selecting any of said plurality of print modes; and

a selection prohibiting controller for prohibiting selecting an inoperable print mode of said plurality of print modes through said operation panel according to the state of said image data.

14. The image processing device according to claim 13, further comprising a finisher for stapling sheets printed by said printer, wherein:

5 said state decision controller determines whether said image data stored in said memory includes said image data different in frame size from other said image stored in said memory; and

10 said selection prohibiting controller prohibits selecting a staple print mode through said operation panel when it is determined that said memory includes said image

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data different in frame size from other said image data stored in said memory, said staple print mode being provided so that said finisher provides a staple processing.

15. The image forming apparatus according to claim 13, wherein:

5 said state decision controller determines whether said memory stores said image data different in frame size from other said image data stored in said memory; and

10 said selection prohibiting controller prohibits selecting a two-side print mode through said operation panel when it is determined that said memory stores said image data different in frame size from other said image data stored in said memory, said two-side print mode being provided for printing said image data stored in said memory on both sides of a sheet.

16. The image forming apparatus according to claim 13, wherein:

5 said state decision controller determines whether said image data stored in said memory all have a same frame size; and

said selection prohibiting controller prohibits selecting an economy print mode through said operation

panel when it is determined that said image data stored in
said memory all have a same frame size, said economy print
mode being provided for printing said image data of a
plurality of frames on one same side of a sheet.

17. An image forming apparatus operable in a
plurality of print modes, comprising:

a memory for storing a print job containing image
data of no less than one frame;

a print-job selector for selecting one of said print
jobs stored in said memory;

state decision controller determines a state of said
image data contained in said print job selected by said
print-job selector;

a printer for printing said image data contained in
said print job selected by said print-job selector;

a display for displaying an operating state of said
image forming apparatus; and

a display controller for displaying on said display
an operable print mode of said plurality of print modes
according to the state of said image data.

18. The image forming apparatus according to claim 17,
wherein said state decision controller determines a length
of a frame of said image data in a predetermined direction.

19. The image forming apparatus according to claim 18, further comprising a finisher for stapling sheets printed by said printer, wherein:

5 said frame-length decision controller determines whether said image data contained in said print job selected by said print-job selector all have a same frame length in said determined direction; and

10 said display controller displays a staple print mode on said display when it is determined that said image data contained in said print job all have a same frame length in said predetermined direction, said staple print mode being provided so that said finisher provides a staple processing.

20. The image forming apparatus according to claim 17, wherein said state decision controller determines a frame size of said image data.

21. The image forming apparatus according to claim 20, wherein:

5 said frame-size decision controller determines whether said image data contained in said print job selected by said print-job selector all have a same frame size; and

 said display controller displays a two-side print

mode on said display when it is determined that said image
data contained in said print job all have a same size,
10 said two-side print mode being provided for printing said
image data on both sides of a sheet.

22. The image forming apparatus according to claim 20,
wherein:

said frame-size decision controller determines
whether said image data contained in said print job
5 selected by said print-job selector all have a same frame
size; and

said display controller displays on said display an
economy print mode for printing said image data of a
plurality of frames contained in said print job.

23. An image forming apparatus operable in a
plurality of print modes, comprising:

a memory for storing a print job containing image
data of no less than one frame;

5 print-job selector for selecting one of said print
jobs stored in said memory;

state decision controller for determining a state of
said image data contained in said print job selected by
said print-job selector;

10 a printer for printing said image data contained in

said print job selected by said print-job selector;

an operation panel for selecting any of said plurality of print modes; and

15 a selection prohibiting controller for prohibiting selecting an inoperable print mode of said plurality of print modes through said operation panel according to the state of said image data contained in said print job.

24. The image forming apparatus according to claim 23, further comprising a finisher for stapling sheets printed by said printer, wherein:

5 said state decision controller determines whether said print job selected by said print-job selector contains said image data different in frame size from other said image data contained in said selected print job; and

10 said selection prohibiting controller prohibits selecting a staple print mode through said operation panel when it is determined that said print job selected by said print-job selector includes said image data different in frame size from other said image data contained in said selected print job, said staple print mode being provided
15 so that said finisher provides a staple processing.

25. The image forming apparatus according to claim 23, wherein:

5 said state decision controller determines whether
said print job selected by said print-selector includes
said image data different in frame size from other said
image data contained in said selected print job; and

10 said selection prohibiting controller prohibits
selecting a two-side print mode through said operation
panel when it is determined that said print job selected
by said print-job selector includes said image data
different in frame size from other said image data
contained in said selected print job, said two-side print
mode being provided for printing said image data on both
sides of a sheet.

26. The image forming apparatus according to claim 23,
wherein:

5 said state decision controller determines whether
said image data contained in said print job selected by
said print-job selector all have a same frame size; and

10 said selection prohibiting controller prohibits
selecting an economy print mode through said operation
panel when it is determined that said image data contained
in said print job selected by said print-job selector all
have a same frame size, said economy print mode being
provided for printing said image data of a plurality of
frames on same one side of a sheet.

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